GOVERNMENT OF INDIA
DRINKING WATER AND SANITATION
LOK SABHA

UNSTARRED QUESTION NO:732
ANSWERED ON:20.07.2017
Arsenic in Ground Water
Subbareddy Shri Yerram Venkata

Will the Minister of DRINKING WATER AND SANITATION be pleased to state:

(a) whether IIT, Madras, has developed a technology to bring down arsenic content in ground water;
(b) if so, the details of the new invention;
(c) the manner in which this technology is helpful to bring down arsenic and other minerals content in drinking water in arsenic and fluoride affected areas like Parakasam and other areas in Andhra Pradesh and in other parts of the country; and
(d) the manner in which the Ministry is planning to use this technology in fluoride affected areas of the country?

Answer

MINISTER OF STATE
IN THE MINISTRY OF DRINKING WATER AND SANITATION
(SHRI RAMESH CHANDAPPA JIGAJINAGI)

(a) & (b) Indian Institute of Technology (IIT)-Madras has developed a latest technology to bring down the concentration of arsenic below the level of 0.01 milligram per litre in drinking water. The technology is named as "AMRIT" (Arsenic and Metal Removal by Indian Technology). The technology uses nano-scale iron oxy-hydroxide, which selectively removes arsenic when water is passed through it. This water purifier has been developed for both domestic as well as community levels.

(c) & (d) As per the information provided by the Government of Andhra Pradesh into integrated management information system (IMIS) of the Ministry as on 17th July 2017, arsenic is not reported in rural drinking water sources in any of the13 districts of Andhra Pradesh State including Prakasam district. The water purifier developed by IIT Madras (AMRIT Technology) is available in both domestic and community level. However, adoption of the technology is based on contamination and ground condition is totally rests with the States.

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